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C-A OPERATIONS PROCEDURES MANUAL

9.5.12 Procedure for Conducting Annual Confirmatory Air Samples

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Attachments

Hand Processed Changes

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Approved: Signature on File _____
Collider-Accelerator Department Chairman Date

R. Karol

9.5.12 Procedure for Conducting Annual Confirmatory Air Samples

1. Purpose

This procedure provides guidance for isolating and analyzing annual samples of the LINAC tunnel exhaust, AGS Ring, NSRL exhaust stack, and RHIC Collider air, by Facilities Support (FS) Staff.

2. Responsibilities

- 2.1 The C-A FS Representative is responsible for maintaining an annual air sampling schedule indicating date of sampling and results.
- 2.2 The FS Representative, or designee, will perform the sampling and analysis.
- 2.3 The FS Representative will forward the analysis results to C-A ESHQ Division Head, the Environmental Compliance Representative (ECR), and the BNL Radioactive Airborne Emission Subject Matter Expert.

3. Prerequisites

- 3.1 Trained and qualified air sampling and sample analysis personnel.
- 3.2 The AGS Ring must be in operation prior to isolating an AGS air sample.
- 3.3 The RHIC must be in operation prior to isolating a RHIC air sample.
- 3.4 The NSRL must be in operation prior to sampling the exhaust stack or target room air.

4. Precautions

- 4.1 The LINAC Tunnel exhaust fan is locked out and shall not be run without ESHQ Division Head authorization.

5. Procedure

- 5.1 Isolate and analyze particulate and gaseous air samples in accordance with Facility Support procedure FS-SOP-1040.

- 5.2 Areas requiring an Annual Confirmatory Airborne Radioactivity Survey are as follows:

Building

Specific Area

930

LINAC Tunnel Exhaust

(Note: this fan is locked out and can't be started without ESHQ Division Head authorization, thus it is currently not sampled).

913

AGS Ring Recirculated Air (C Fan House)

956

NSRL Target Room Exhaust Stack

1010

RHIC Ring Air (Dump Area)

Note:

Set up for the 1010 samples and take sample when the RHIC beam is aborted into the dumps.

Coordinate with MCR for the timing of this condition.

6. Documentation

- 6.1 Analysis report to C-A ESHQ Division Head, C-A ECR, and the BNL Radioactive Airborne Emission Subject Matter Expert.

7. References

- 7.1 Facilities Support Procedure FS-SOP-1040, "Airborne Radioactivity Sampling/Analysis".

8. Attachments

None